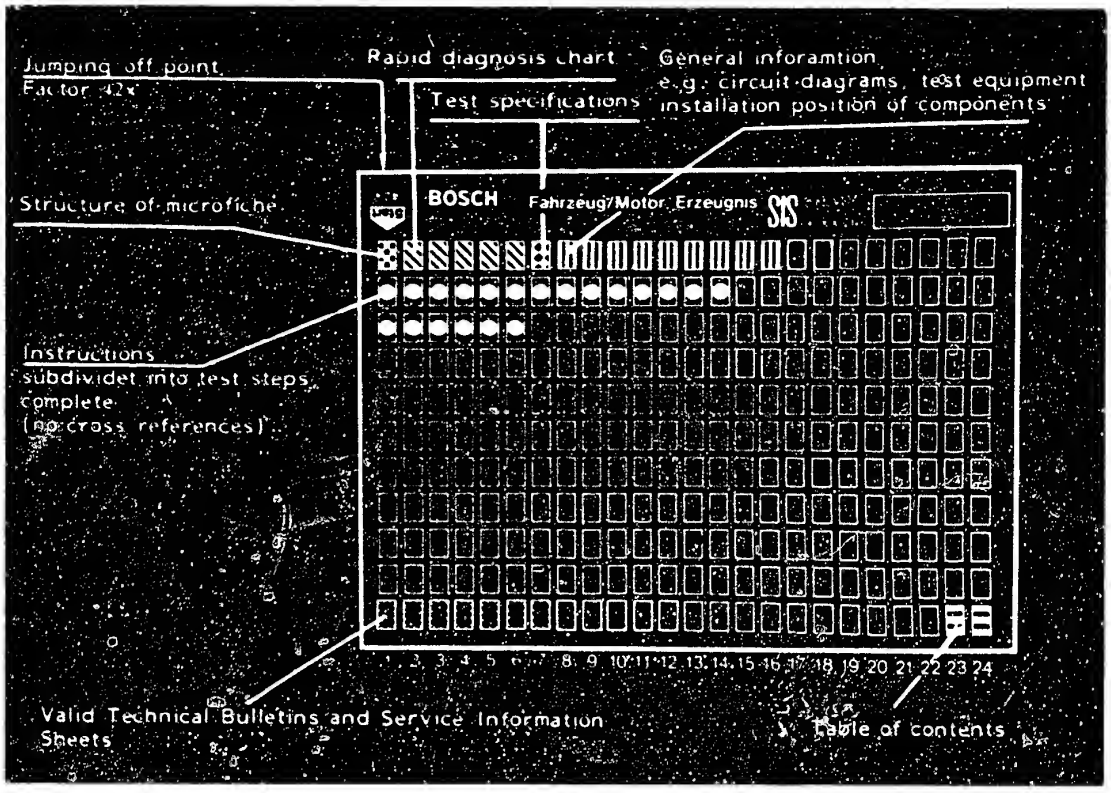
Structure of microfiche



1. Read from left to right

2. Title of microfiche (appears on each coordinate)

E16	Product/assembly/test step Vehicle/engine	

Coordinate

3. Limits of section

Beginning | Mid-section | End | One-page section

4. References to relevant test steps in test specifications; coordinate e.g. C6

C6

A1	Trouble-shooting program	⬇

1. Rapid diagnosis chart

The following rapid diagnosis chart makes it possible for the experienced expert to quickly check the electrical/electronic part of the ignition system using normal workshop test equipment.

The rapid diagnosis chart contains the following information:

- Customer complaint
- Cause of the trouble
- Test instructions (if no coordinate given on the right, further possibilities for testing are indicated).
- Coordinates for detailed trouble-shooting.

If detailed information and instructions on trouble-shooting are necessary, always proceed according to the trouble-shooting program starting on coordinate B 1.

Rapid diagnosis chart

Customer complaint (symptom of trouble)

1. Starting motor operates, but engine fails to start
2. Rough idling
3. Poor throttle response
4. Engine lacks power
5. Misfiring
6. Fuel consumption too high
7. Engine pings when accelerating
8. Backfiring
9. Engine becomes too hot

1	2	3	4	5	6	7	8	9	Cause of trouble	Test instructions	Coordinates
●	●	●	●	●	●		●		Spark plugs defective	Assess using ignition oscillograms or remove spark plug and make visual examination.	-
●	●	●	●	●	●	●	●	●	Ignition timing incorrect	See Autodata test specifications	-
●	●	●	●	●					Shunt on secondary side	Assess ignition coil, ignition distributor, ignition harness and spark plug using ignition oscillogram or make visual examination.	-
●	●	●	●	●					Open circuit on secondary side	Assess ignition coil, ignition distributor, ignition harness and spark plug using ignition oscillogram, or test for continuity using ohmmeter	-
●									Open circuit on primary side	Test voltage supply to trigger box or test primary circuit	C 3
●	●	●	●	●					Ignition coil defective	Make visual examination, electrical test	B 5

Rapid diagnosis chart

Customer complaint (symptom of trouble)

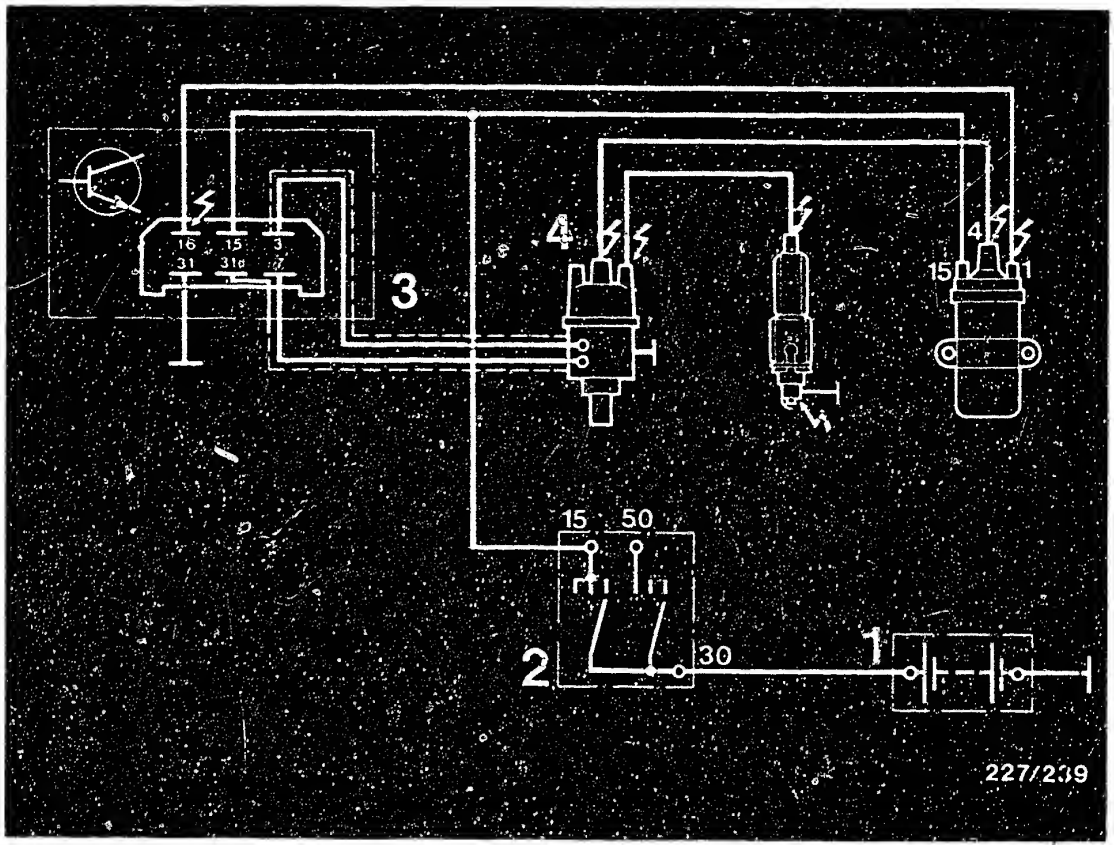
1. Starting motor operates, but engine fails to start
2. Rough idling
3. Poor throttle response
4. Engine lacks power
5. Misfiring
6. Fuel consumption too high
7. Engine pings when accelerating
8. Backfiring
9. Engine becomes too hot

1	2	3	4	5	6	7	8	9	Cause of trouble	Test instructions	Coordinates
		●	●	●	●				Interference-suppression resistors defective	Assess using ignition oscillogram or perform resistance measurement	-
	●	●	●		●	●	●	●	Centrifugal advance defective	See Autodata test specifications	-
		●	●		●	●		●	Vacuum advance defective	See Autodata test specifications	-
●									Trigger box defective	Test final stage and primary voltage	B11/B13
●									Ignition distributor pickup system defective	Pick-up resistance, pick-up winding short-circuit to ground, check pick-up system for mechanical damage.	C 1
●	●	●	●	●					Engine-speed limiter defective	Test cut-out speed, or perform visual examination.	
●									Firing sequence incorrect	See Autodata test specifications	

2. Test specifications

Ignition coil primary	0,6 ... 1,0 Ω	B5
Ignition coil secondary	6,4 ...10,6 kΩ	
Voltage supply trigger box with engine idling	12 ...14 V	B9
Voltage supply ignition coil with engine idling	≧ = 10 V	B9
Peak-coil-current cut-off approx. 1 s after	approx. 5 V 0 V	B11
Primary voltage with engine idling	215 ... 255 V	B13
Resistance of coil section	485 ... 850 Ω	C1
Short circuit to ground of coil section	R = ∞	

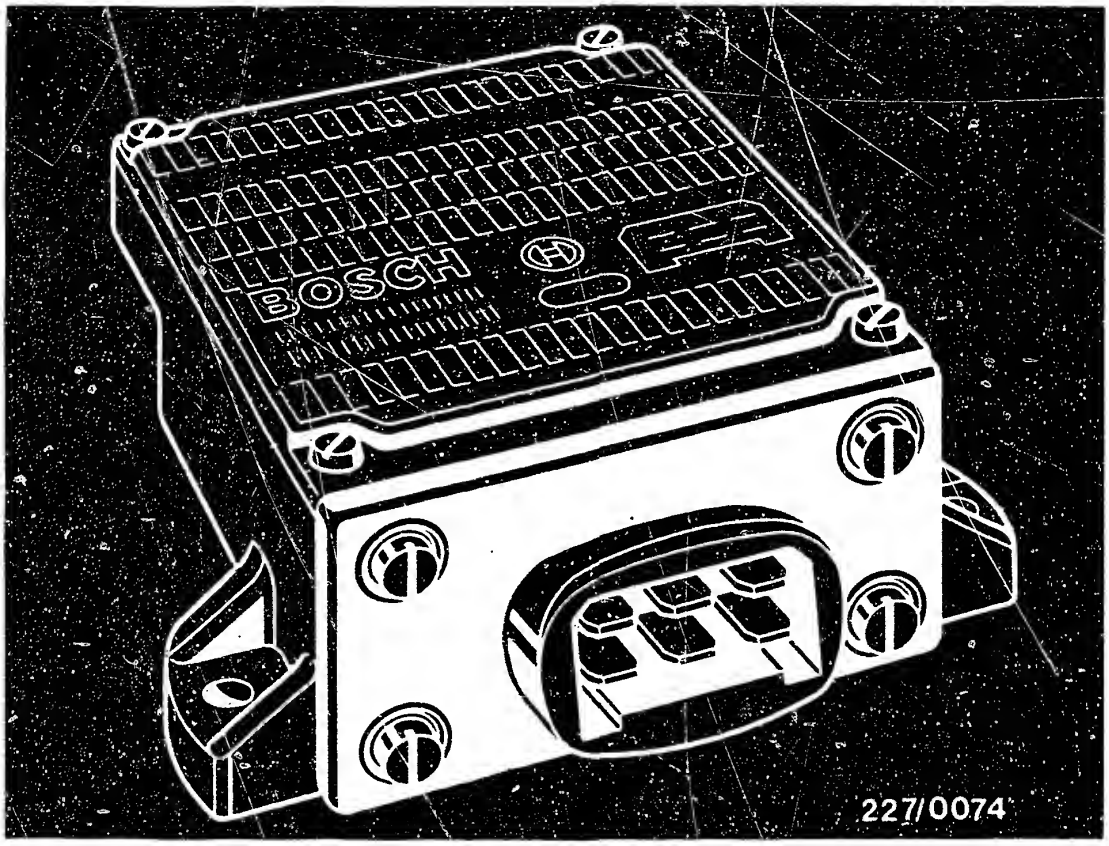
See Autodata test specifications for settings for ignition, idle speed, exhaust gas, valve clearance etc.



1 = Battery
2 = Ignition and starting switch
3 = Trigger box
4 = Ignition distributor
5 = Ignition coil

ϟ = Dangerous voltages (400 V - 25 kV)

3. Electrical terminal diagram



TCI trigger box

4. Installation position of components

The trigger box is in the engine compartment.

5. Necessary test equipment, aids

Motortester	MOT 201	0 684 000 201
Spark gap e.g. Ignition coil and condenser tester	EFAW 106 A	0 681 100 001
or Single spark gap	EF 1177/7	1 684 531 000
5 kΩ sleeve-type suppressor		0 356 500 001
Ohmmeter	ETE 014.00	0 684 101 400
or e.g.	Pontavi Wh2	Commercially available
Voltmeter e.g.	ETE 014.00	0 684 101 400
Test prods		Commercially available

6. Danger of accident on electronic ignition systems

Increased demands of modern engines on the ignition system combined with the desire for freedom of maintenance have recently led to electronic ignition systems being fitted as standard. Usually the ignition power of electronic systems (of almost all manufacturers) is higher than that of conventional systems, and there are signs of further increases in power. Electronic ignition systems thus reach a power range which can be highly dangerous if live parts or terminals are touched (both on the primary as well as the secondary sides).

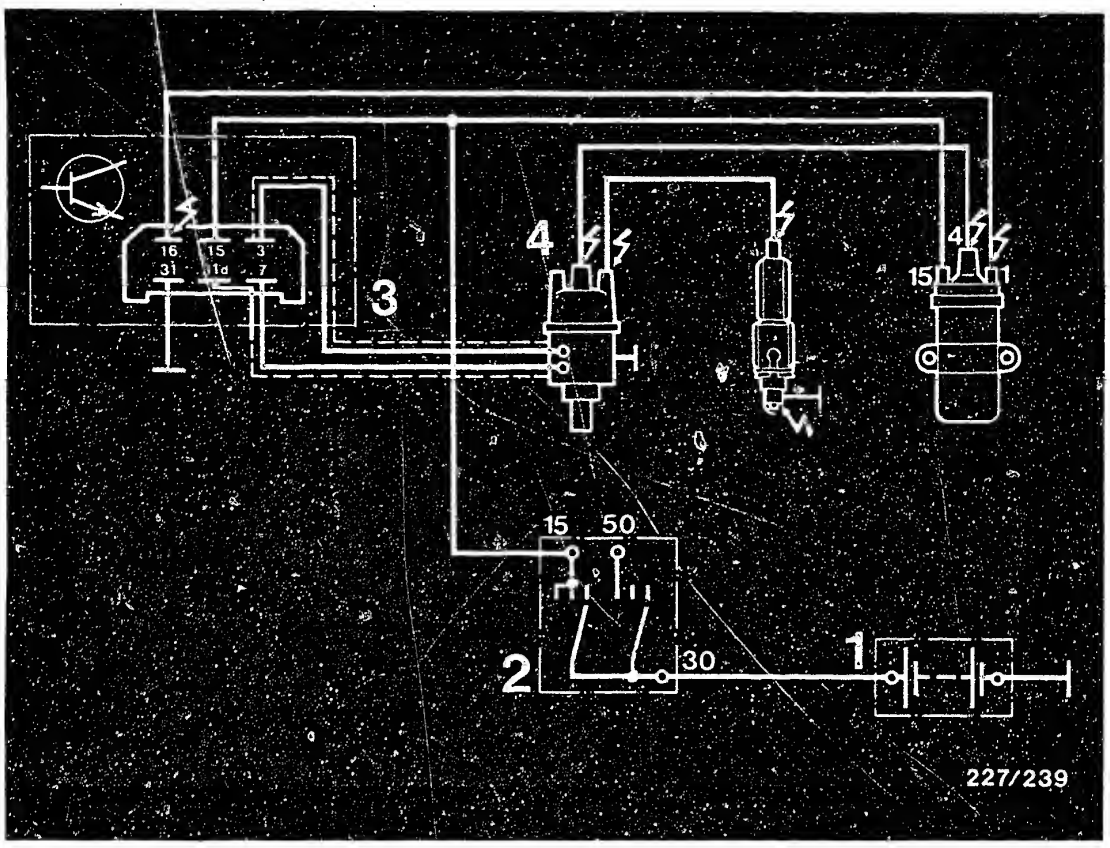
In this connection we should like to point out that the VDE regulations, in particular VDE 0104/7.67 and/or the respective national regulations must be followed when testing or working on the ignition system.

The ignition should always be switched off when working on the ignition system (switch off ignition or voltage source). Such work includes:

- Connecting of engine test equipment (timing light, dwell-tach tester, ignition oscilloscope, etc.).
- Replacing parts of the ignition system (spark plug, ignition coil, ignition distributor, H.T. ignition cable, etc.).

If, while testing the ignition system or during adjustment work on the engine (e.g. carburettor), it becomes necessary to switch on the ignition (switch on ignition or voltage source), the above-mentioned dangerous voltages occur over the entire system.

The danger of accident exists, therefore, not only on the individual assemblies of the ignition system (e.g. ignition distributor, ignition coil, trigger box, ignition harness), but also on the wiring harness (e.g. tachometer connection, diagnostic plug), at plug-in connections and test equipment.



1 = Battery
2 = Ignition and starting switch
3 = Trigger box
4 = Ignition distributor
5 = Ignition coil

ϟ = Dangerous voltages (400 V - 25 KV)

Electrical terminal diagram

The dangerous locations are marked with danger arrows taking the example of the terminal diagram of an electronic ignition system.

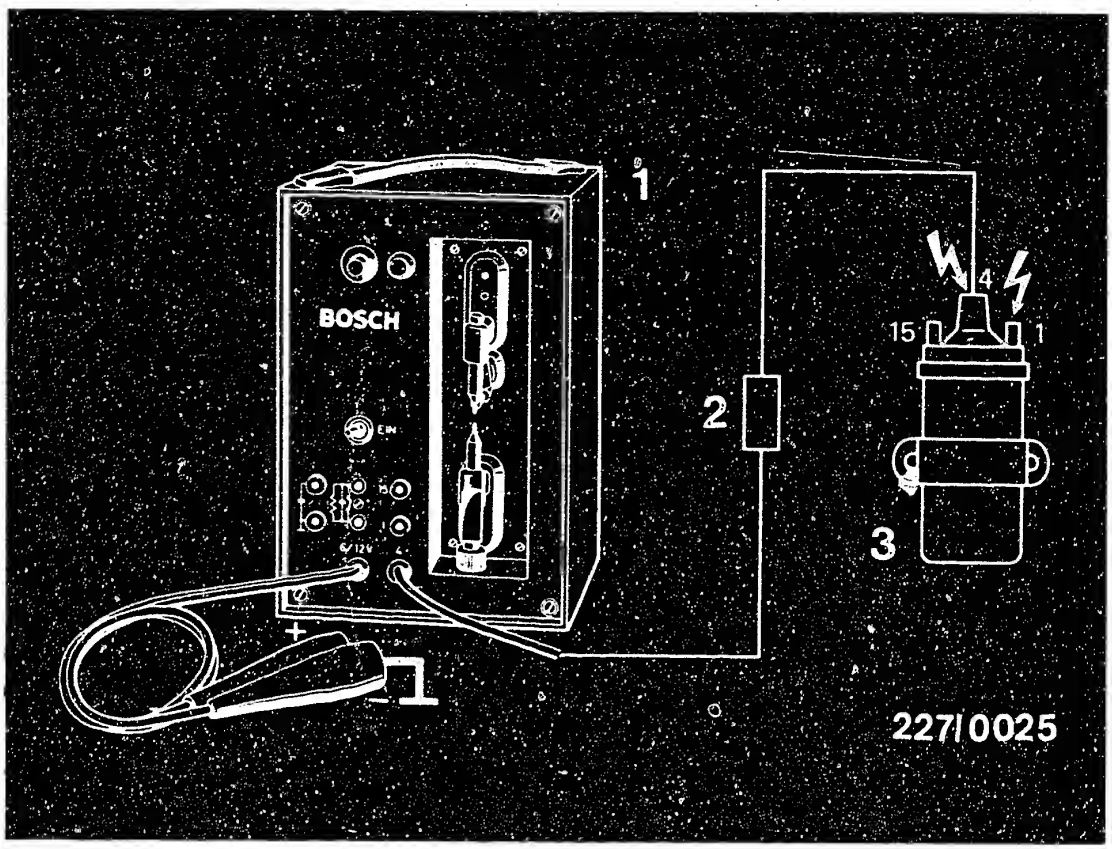
7. Important vehicle information

- During the compression test, either pull off the trigger-box plug or firmly connect terminal 4 of the ignition coil to ground using an extra cable (dangerous voltages, insulation damage at ignition coil, ignition distributor or ignition harness).

Note: The extra cable must be suppressed with at least 2 kΩ, e.g. with the interference-suppression sleeve (5 kΩ) 0 356 500 001.

- Resistance measurements must only be performed with the ignition switched off or with the battery disconnected (measuring instrument defective).

- In order to prevent the trigger box from being irreparably damaged, the secondary side of the ignition system must have at least 2 kΩ interference suppression.



1 = Spark gap
2 = 5 kΩ sleeve-type suppressor
3 = Ignition coil

= Dangerous voltages (400 V - 25 kV)

- In order to prevent the trigger box from being irreparably damaged, when using a spark gap, an interference-suppression resistor of at least 2 kΩ must be connected between the spark gap and ignition coil terminal 4, e.g. sleeve-type suppressor (5 kΩ) 0 356 500 001.

- In the case of ignition distributors with engine-speed limitation the ignition distributor side terminal 4 must have 1 kΩ interference suppression. Operation without interference suppression will lead to the destruction of the trigger box.

- Do not disconnect the battery while the engine is running.
- Incorrect battery polarity will lead to the destruction of the trigger box and ignition coil.
- Do not use a starting aid with more than 16 V or a fast charger for starting.
- The specified ignition coil (see Part No.) must not be replaced with a different ignition coil.
- No suppression capacitor must be connected to ignition coil terminal 1 and terminal 15.
- Ignition coil terminal 1 must not be brought into contact with ground as a theft-proofing measure (ignition coil will be destroyed when ignition is switched on).
- No battery + or test lamp must be connected to ignition coil terminal 1 (trigger box will be destroyed).
- Ignition cable from ignition coil terminal 4 to ignition distributor terminal 4 must not be disconnected during operation.
- The line between the inductive-type pick-up and the trigger box must be screened (otherwise negative effect on the trigger-box function).

8. Trouble-shooting program

Procedure

The trouble-shooting program is divided into 3 rows of boxes.

The left-hand row contains test instructions and test specifications.
The center row contains repair instructions.
The right-hand row contains the illustrations/terminal diagrams belonging to the text and the explanation of the items in the picture.

If the questions asked in the left-hand row can be answered conclusively with "Yes", then proceed to the next test down.

If the answer to the question is "No", branch to the center row and carry out the tests given there.

Before testing, make sure of the following:

Battery fully charged, fuel system O.K., engine mechanically O.K. (e.g. compression, valve clearance etc.). Ambient temperature/ignition system temperature 0° to +100°C (temperature has a considerable influence on measured values).

Beginning of trouble-shooting program

Starting motor operates, engine fails to start or misfires or lacks power.

Yes

Continued on B 3 /4

Yes

Test primary voltage or, if no oscilloscope available, check whether ignition spark across spark gap.

Primary voltage testing with oscilloscope.
Connect oscilloscope to ignition coil as per operating instructions.
Start engine.
Oscilloscope must indicate a primary voltage (of any value).

Ignition spark testing with spark gap.
Remove H.T. ignition cable terminal 4 from ignition coil.
Connect spark gap including sleeve-type suppressor (5 kΩ) to ignition coil. Adjust spark gap to 5 mm.
Start engine.
There must be sparks across the spark gap.
Primary voltage on oscilloscope or ignition sparks across spark gap?

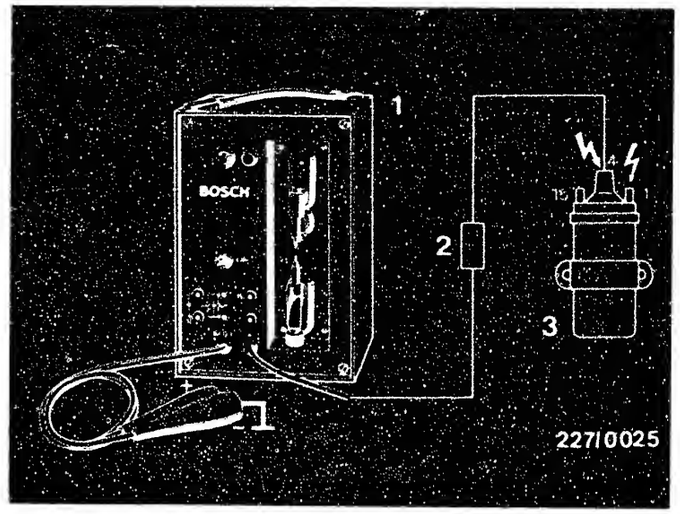
No →

If no primary voltage or no ignition spark, continue testing at C 1.

Tests from B 5 onwards not necessary.

Yes

Continued on B 5/6



1 = Spark gap
2 = 5 kΩ sleeve-type suppressor
3 = Ignition coil

⚡ = Dangerous voltages (400 V-25 kV)

Yes

Check distributor cap, distributor rotor, H.T. ignition cables and spark plugs.

High-tension side O.K.?

No → Repair high-tension side

Yes

Test ignition coil

Visual examination:
Remove protective cap from ignition coil and check that plug is present and that no sealing compound has escaped.

Electrical test:
Ingnition coil primary (term. 15 and 1) 0,6...1,0 Ω (take resistance of test lead with test prods into account). Ignition coil secondary (term. 1 and 4) 6,4... 10,6 kΩ.

Plug present and no sealing compound escaped?

Resistance values O.K.?

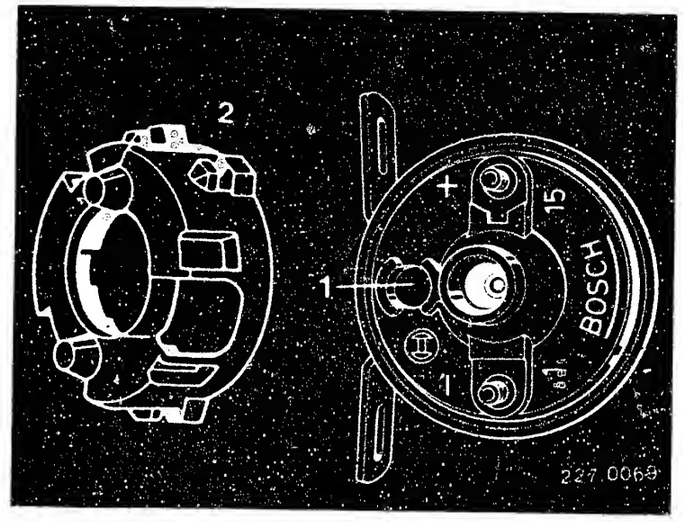
No →

1. If plug is not in position and/or sealing compound has escaped, replace trigger box and ignition coil.

2. If resistance values are not O.K., replace ignition coil.

Yes

Continued on B 7/8



1 = Plug
2 = Protective cap

Yes

Engine running? — No →

Disconnect negative and positive cables from battery. Remove trigger-box plug. Switch on ignition.
1. Check for contact resistance in cables from positive battery terminal to trigger-box term. 15 including cables from negative battery terminal to trigger-box plug term. 31. Total contact resistance max. 0.3 Ω (take resistance of test lead with test prods into account). Eliminate contact resistance.
2. Check for contact resistance in cables from positive battery terminal to ignition coil term. 15 as well as in cable from ignition coil term. 1 to trigger-box plug term. 16. Total contact resistance max. 0.3 Ω (take resistance of test lead with test prods into account). Eliminate contact resistance.
If the contact resistance in points 1 and 2 is less than 0.3 Ω , replace trigger box.

Yes

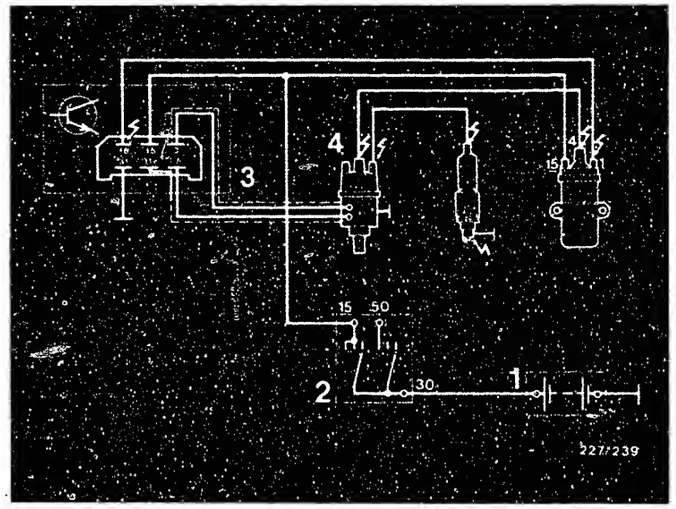
Test initial ignition-timing adjustment
(Autodata test specifications)

Adjustment O.K.? — No →

Adjust ignition.

Yes

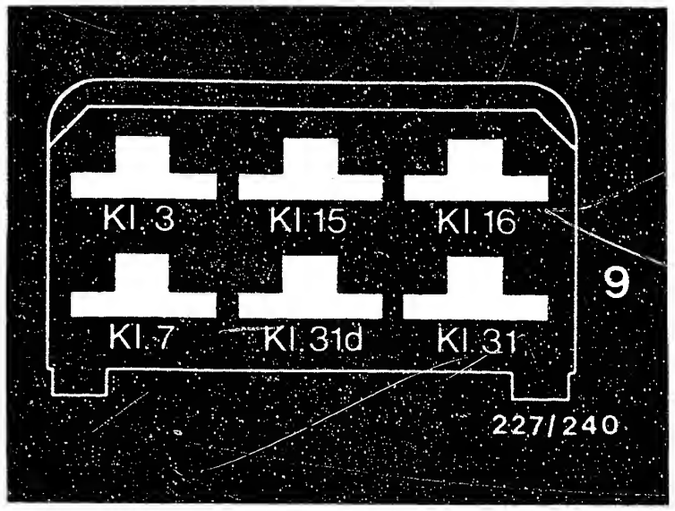
Continued on B 9/10



1 = Battery
2 = Ignition and starting switch
3 = Trigger box
4 = Ignition distributor
5 = Ignition coil

= Dangerous voltages (400 V - 25 kV)

9 = Trigger-box plug



Yes

Test trigger box voltage supply.
Push back rubber sleeve of trigger-box plug.
Connect voltmeter with test prods to trigger-box plug term.15 and term. 31.
Let engine idle.
Measured voltage must be 12 ... 14 V and must be no more than 1 V below battery voltage.

Voltage correct?

No →

Disconnect negative and positive cables from battery. Remove trigger-box. Switch on ignition.
1. Check for contact resistance in cables from positive battery terminal to trigger-box plug term. 15 including cables from negative battery terminal to trigger-box plug term. 31. Total contact resistance max. 0.3Ω (take resistance of test lead with test prods into account).
   Eliminate contact resistance.

Yes

Test ignition coil voltage supply.
Connect voltmeter to ignition coil term. 15 and negative battery terminal.
Let engine idle.
Measured voltage must be at least 10 V.

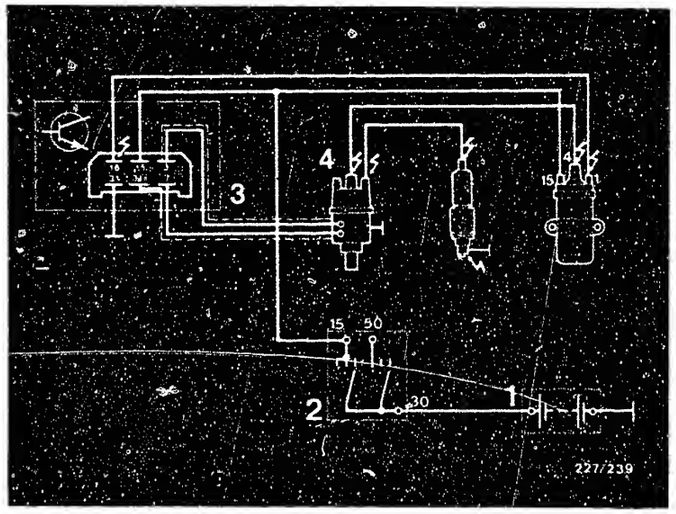
Voltage correct?

No →

Disconnect positive cable from battery.
Switch on ignition.
Check for contact resistance in cables from positive battery terminal to ignition coil term. 15.
Contact resistance max. 0.3Ω (take resistance of test lead with test prods into account).
Eliminate contact resistance.

Yes

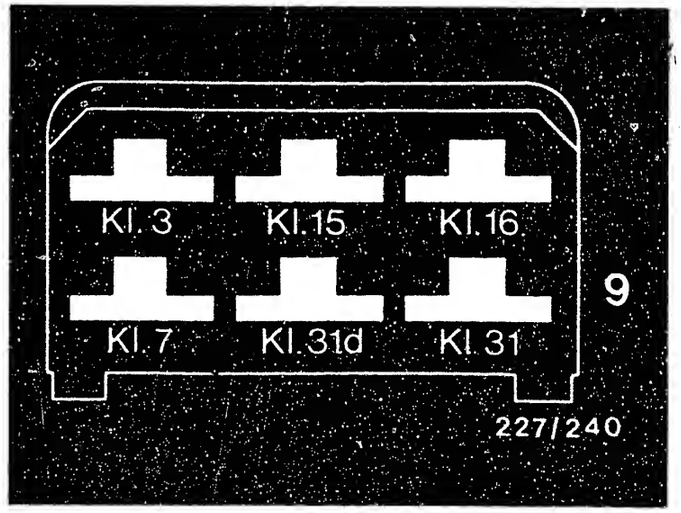
Continued on B 11/12



1 = Battery
2 = Ignition and starting switch
3 = Trigger box
4 = Ignition distributor
5 = Ignition coil

⚡ = Dangerous voltages (400 V - 25 kV)

9 = Trigger-box plug



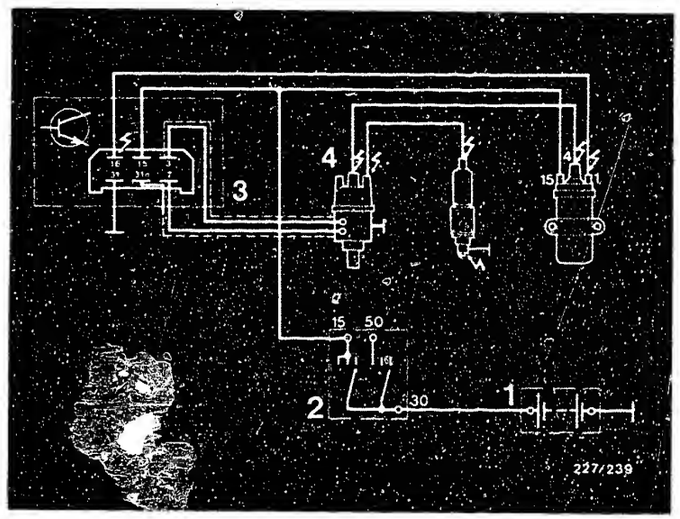
Yes

Check the peak-coil current cutoff.
Connect voltmeter to ignition coil terminals 15 and 1. The voltmeter should show a short deflection for approx. 1 s (approx. 5 V). Voltmeter must return to 0 V.
Voltage (0 V) OK?

→ Replace trigger box and ignition coil.

Yes

Continued on B 13/14



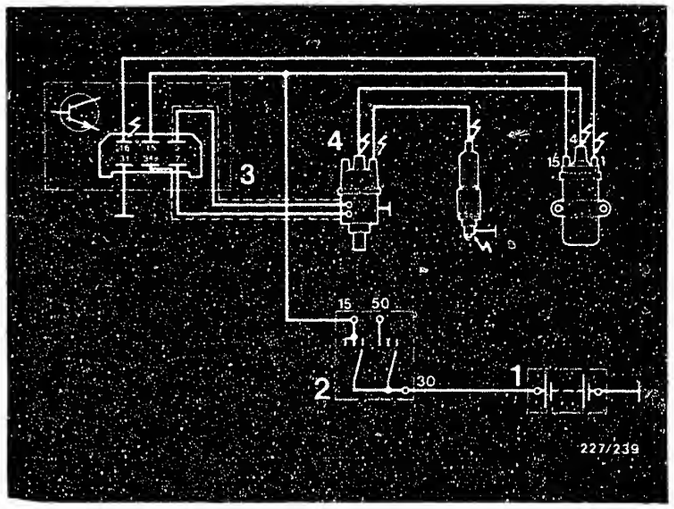
1 = Battery
2 = Ignition and starting switch
3 = Trigger box
4 = Ignition distributor
5 = Ignition coil

= Dangerous voltages (400 V - 25 kV)

yes

Check the primary voltage (if MOT series available).
Connect the oscilloscope e.g. MOT 201 to ignition coil in accordance with the operating instructions.
Run the engine at idle.
The measured primary voltage must be 215 ...255 V. See Fig.
Voltage OK?

No → Replace trigger box.



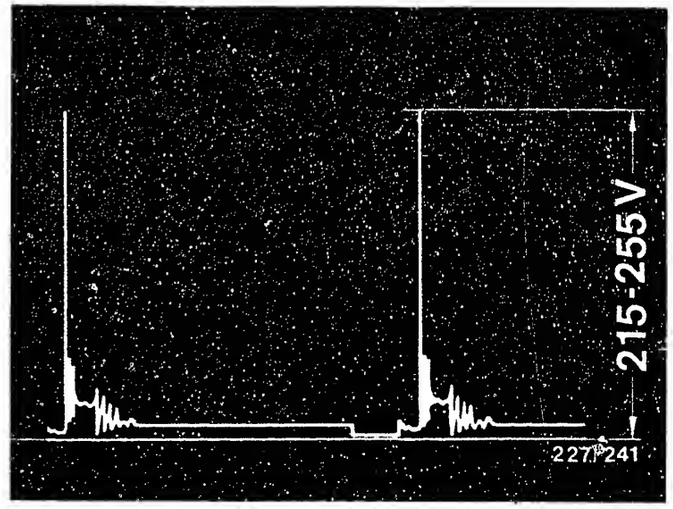
1 = Battery
2 = Ignition and starting switch
3 = Trigger box
4 = Ignition distributor
5 = Ignition coil

= Dangerous voltages (400 V - 25 kV)

yes

Ignition system OK.
Tests completed.
There is no need to proceed beyond C 1.

Note:
If customer complaint is still not remédied, then look for further possible faults in the fuel system. It is also possible that there is a mechanical fault in the engine.



No primary voltage or no ignition spark.

(Continued from B3)

yes

Test resistance of coil section including electric cable.
Disconnect trigger box plug.
Connect ohmmeter to the disconnected trigger box plug between terminal 3 and 7.
Ohmmeter must show 485...850 Ω.
Resistance value O.K.?

no → Replace coil section/ignition distributor or electric cable.

yes

Test ground connection of coil element and electric cable.
Connect ohmmeter to disconnected trigger box plug at terminal 3 or 7 and ground connection. Ohmmeter must show (∞) continuously.
Resistance value (∞) O.K.?

no → Replace coil section/ignition distributor or electric cable.

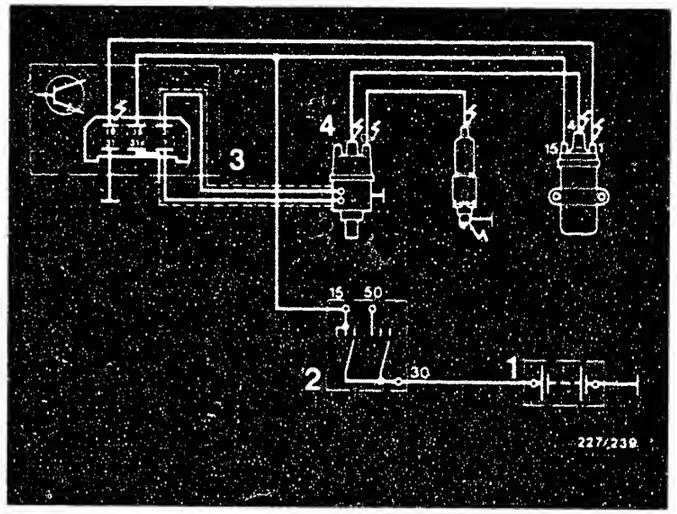
yes

Test pickup assembly to see if there is mechanical damage.
Visual test: timer core must not rub against the teeth of the pickup assembly. Pickup assembly O.K.?

no → Replace pickup assembly/ignition distributor.

yes

Continued on C3/4



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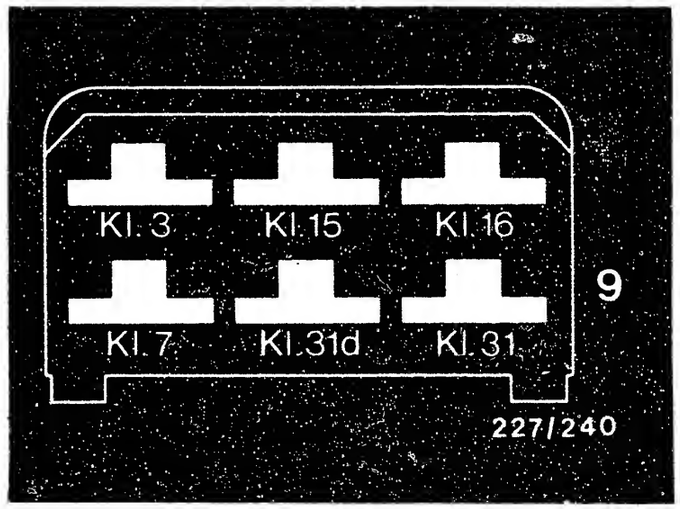
4 = Ignition distributor
5 = Ignition coil

= Dangerous voltages (400 V - 25 kV)

9 = Trigger-box plug



Yes

Test trigger-box voltage supply.
Pull off the trigger-box plug.
Connect the voltmeter to trigger-box plug between terminals 15 and 31.
Switch on the ignition.
Voltmeter must indicate battery voltage.

Voltage correct?

No → Check for open-circuit in cables and terminals from ignition and starting switch to trigger-box plug terminal 15 as well as in ground cable terminal 31.
Eliminate open-circuit.

Yes

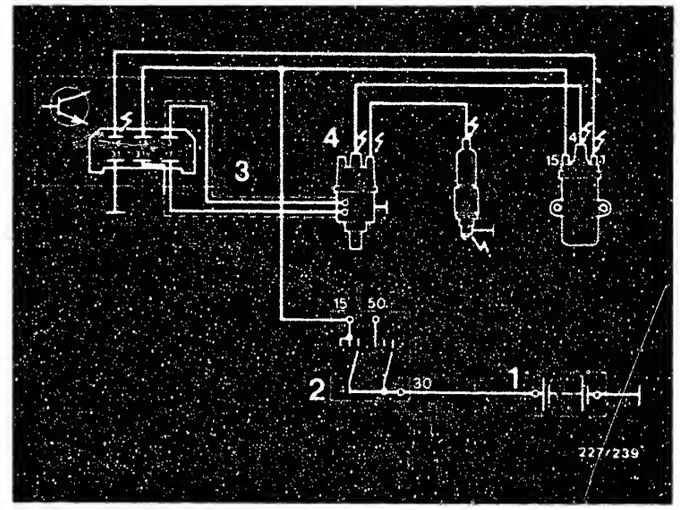
Test primary circuit.
Connect voltmeter to pulled-off trigger-box plug between terminals 16 and 31.
Switch on the ignition.
Voltmeter must indicate battery voltage.

Voltage correct?

No → Check for open-circuit in cable from ignition and starting switch to ignition coil terminal 15, in the primary winding of the ignition coil, in the cable from ignition coil terminal 1 to trigger-box plug terminal 16 and in the ground cable terminal 31.
Elimate open-circuit.

Yes

Continued on C 5/6



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5 = Ignition coil

⚡ = Dangerous voltages (400 V - 25 kV)

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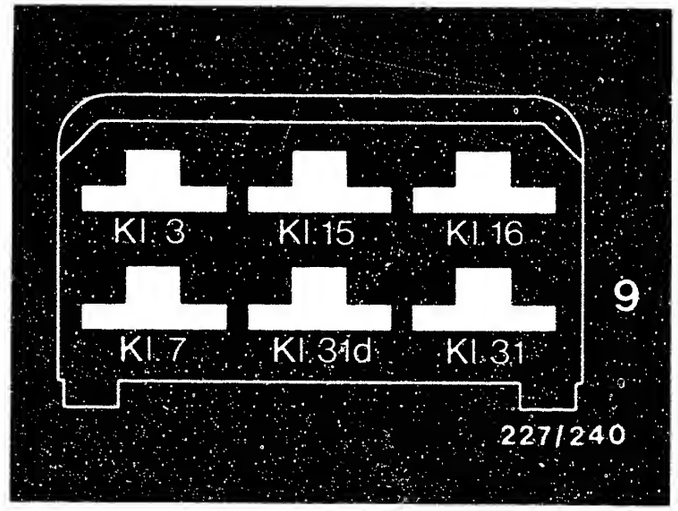


Yes

Test ignition coil.

Visual examination: Remove protective cap from ignition coil and check whether plug (see illustration) is in position and whether any sealing compound has escaped.

Electrical test: Ignition coil primary (term. 15 and 1) 0,6...1,0 Ω (take resistance of test lead with test prods into account).
Ignition coil secondary (term. 1 and 4)6,4...10,6 kΩ.

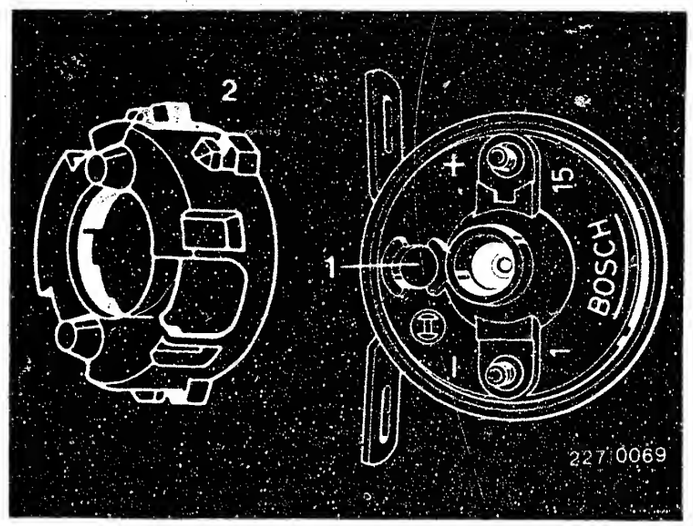
Plug in position? No sealing compound escaped?

Resistance values O.K.?

No

1. If plug is not in position and/or sealing compound has escaped, replace trigger box and ignition coil.

2. If resistance values are not O.K., replace ignition coil.



1 = Plug
2 = Protective cap

Yes

Replace trigger box.
Test completed.
Tests from B 5 not necessary.

Note:
If customer complaint is still not remedied, then look for further possible faults in the fuel system, or the engine is not mechanically O.K.

After-sales Service

Technical Bulletin

Danger of Accident on Semi-conductor Ignition Systems

VDT-I-227/102 B

11.1976

Please be sure to pass this bulletin on to your employees for their attention.

The increased demands made on their ignition systems by modern engines, and the wish for freedom from maintenance, led some time ago to manufactures starting to equip their vehicles with semi-conductor ignition systems as original equipment. In most cases the performance of nearly all makes of such systems is higher than that of conventional systems, and further improvements are to be expected. This means that semi-conductor ignition systems have reached the point where contact with "live" parts or contacts (whether on the primary side or the secondary side) can prove fatal.

In this connection we should like to point out to you that the laws valid in your country regarding work on high-voltage systems must be adhered to when working on, or testing, semi-conductor ignition systems.

As a matter of principle, when working on such ignition systems the ignition is to be switched off. Included in such work are the following operations:

- Connection of engine testing equipment (timing light, dwell-tach tester, ignition oscilloscope etc.).
- Replacement of ignition system parts (spark plugs, ignition coil, ignition distributor, H.T. ignition cables etc.).

If it is necessary to switch on the ignition in order to test the system or make adjustments on the engine (to the carburetor for instance), then lethal voltages are present throughout the entire system.

This means that the danger of accident exists not only at individual components in the system (e.g. ignition distributor, ignition coil, trigger box, ignition harness), but also at the wiring harness (e.g. connection for the tachometer, diagnostic connector), on terminals, and on test equipment.

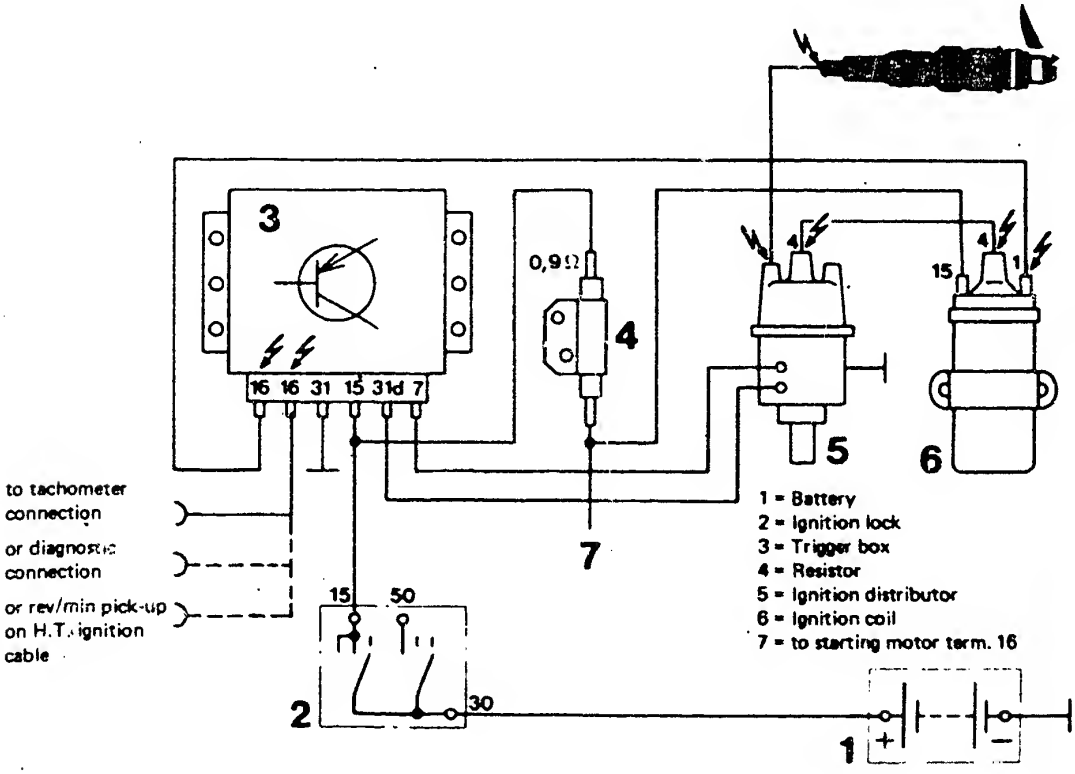
BOSCH Geschäftsbereich KH Kundendienst, Kfz-Ausrüstung

In addition, in the case of the capacitor-discharge ignition system (CDI), danger of accident is also present under the following circumstances:

- Operation of the trigger box without the ignition transformer.
- At the trigger box, (removed), relatively soon after it has been switched off (capacitor discharge).

Below is a typical terminal diagram of a semi-conductor ignition system, the danger points are marked with red high-voltage arrows. We would point out that all semi-conductor ignition systems, even the older ones, are to be regarded as dangerous in the sense as defined by this bulletin.

Please address any queries or comments concerning the contents of this publication to our representative in your country.



Terminal diagram

After-sales Service

Technical Bulletin

EFFECTS OF ELECTRICAL AND ELECTRONIC SYSTEMS ON HEART PACEMAKERS

e.g. ignition systems, Jetronic, Motronic, ABS

VDT-I-227/107 En
1.1981

Please ensure without fail that this Bulletin is passed on to your employees for their attention!

We have often been asked by some of our customers whether or not patients with heart pacemakers are endangered in any way by ignition systems. This theme was recently the subject of an examination carried out by the Ignition System Development Department of Robert Bosch GmbH in conjunction with Dr. Thull, lecturer at the Central Institute for Biomedical Technology at the University of Erlangen-Nürnberg and Biotronic GmbH & Co. of Berlin, a manufacturer of heart pacemakers. The magazine "Biomedizinischen Technik" (5/80) listed the results.

The most important discoveries in this practice can be summarized from the examination report as follows:-

1. Heart pacemakers corresponding to the latest state of the art are not affected by radiation (electromagnetic fields) from ignition systems.
2. With a stationary engine and the ignition switched off the heart pacemaker is not affected by any part of the ignition system, even when unintentionally touched. Maintenance work in the engine compartment, for example, can then be carried out without any danger.
3. With the engine running or stationary with the ignition switched on, touching current-carrying parts of the ignition system, as well as parts of any other electrical system, presents a certain danger for everybody. The heart pacemaker can here be affected under certain conditions (voltage, current and frequency).
   Patients with heart pacemakers should therefore at all costs avoid touching current-carrying parts of electrical systems.
4. Furthermore, patients with heart pacemakers are more inclined to psychic shock effects than other people, even when they receive just a harmless electric shock, because many such patients are conscious of the increased danger to the cardiac activity.

We therefore consider it inadvisable for patients with heart pacemakers to be employed in workshops or on vehicles where ignition systems are being tested or repaired. If any members of your staff have heart pacemakers please carry out the necessary measures.

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We would like to add that heart pacemakers are not expected to be affected in any way by interference from other electronic products and systems which we manufacture, such as the Antiskid System (ABS), Jetronic, Motronic, because the much greater radiation intensity of the ignition systems examined in normal use has not caused any interference to heart pacemakers corresponding to the latest state of the art.

If you should receive questions on this matter from customers, please inform them accordingly.

After-sales Service

Technical Bulletin

NEW DESIGNATIONS FOR IGNITION SYSTEMS

VDT-I-227/108 En
1.1983

The introduction of new ignition systems has made it necessary to reclassify all designations.

The designations listed below will be used immediately in KH workshop and sales literature.

Designation	Abbrev'd code	Meaning	Switching	Ignition control and spark advance	High-voltage distribution
Coil ignition	SZ (CI)	---------	Mechanical (breaker points)	Mechanical (ignition distributor)	Mechanical (ignition distributor)
Transistorized coil ignition	TSZ-K (TCI-c)	K=breaker-triggered	Electronic (trigger box)	Mechanical (ignition distributor)	Mechanical (ignition distributor)
Trigger box with conventional circuit techniques	TSZ-I* (TCI-i)	I=Induction-type pulse generator	Electronic (trigger box)	Mechanical (ignition distributor)	Mechanical (ignition distributor)
	TSZ-H	H=Hall generator	Electronic (trigger box)	Mechanical (ignition distributor)	Mechanical (ignition distributor)
Transistorized ignition	TZ-I* (TI-i)	I=Induction-type pulse generator	Electronic (trigger box)	Mechanical (ignition distributor)	Mechanical (ignition distributor)
(Trigger box in Hybrid technique)	TZ-H* (TI-h)	H=Hall generator	Electronic (trigger box)	Mechanical (ignition distributor)	Mechanical (ignition distributor)

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Designation	Abbrev'd code	Meaning	Switching	Ignition control and spark advance	High-voltage distribution
Breakerless semiconductor ignition with or without knock control	EZ EZ-K	- K=Knock control	Electronic (trigger box or control unit)	Electronic (control unit)	Mechanical (ignition distributor or high-voltage distributor)
Distributor-less ignition with or without knock control	VZ VZ-K	- K=Knock control	Electronic (control unit)	Electronic (control unit)	Electronic (dual-spark ignition coil, or 1 ignition coil for each spark plug)

*Note: The ignition system can also be equipped with a DLS unit (digital idle stabilization) or with an ELS unit (electronic idle stabilization) or with an ESV unit (electronic ignition retardation).

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Motor Vehicle Service Information

TESTS ON ELECTRONIC IGNITION SYSTEMS
(TCI, TZ)
TESTER INSTRUCTIONS

VDT-I-Gen. 035 En
3.1981

The following tests are listed in older and current Tester operating instructions or in Trouble-shooting with the oscillograph.:

- "Separate ignition coil test" (concerns EFAW 213, 214, 268, AE 2000).
- Calculating the "ignition voltage reserve" (concerns EFAW 213, 214, 268, AE 2000 and MOT series).
- "Intensified insulation test" (concerns EFAW 213, 214, 268, AE 2000 and MOT series).

Nowadays transistorized ignition systems deliver more than 30,000 V secondary voltage.

To avoid damage to ignition coil, ignition cable and ignition distributor by voltage flashovers, the tests listed above should not be carried out on transistorized ignition systems.

The contents of this Service Information has already been published in the K7-Information K7-VJF 17/8012.

BOSCH Ge...: Mbereich KH Kundendienst Kfz-Ausrüstung

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Automotive Equipment - After-Sales Service,
Department for Technical Publications KH/VDT,
Postfach 50, D-7000 Stuttgart 1

Published by: After-Sales Service, Department for Training and Technology (KH)VSK). Press date: 11.1982

Please direct questions and comments concerning the contents to our authorized representative in your country.